Amendments to the Claims

- 1. (Previously presented) A method of determining blood flow in a conduit, comprising compensating for an injectate induced thermal offset of a thermal dilution sensor connected to a catheter, the compensating including one of (i) pre-calibrating a thermal property of the catheter or the thermal dilution sensor; (ii) determining a calibration coefficient for the catheter and (iii) determining a thermal transfer coefficient for the catheter.
- 2. (Previously presented) A method of determining blood flow in a conduit, comprising compensating for an injectate induced thermal offset of a thermal dilution sensor connected to a catheter by pre-calibrating a thermal property of the catheter.
- 3. (Previously presented) The method of Claim 2, wherein pre-calibrating a thermal property of the catheter includes determining a thermal transfer coefficient K_i , such that $K_i = \frac{\Delta T_i}{(T_b T_i)}$; where T_b corresponds to the temperature of the blood, T_i corresponds to the temperature of the injectate and ΔT_i is the change in the thermal dilution sensor temperature from the injectate induced cooling.
 - 4. (Cancelled).
 - 5. (Cancelled).
 - 6. (Cancelled).
 - 7. (Cancelled).
 - 8. (Cancelled).
 - 9. (Cancelled).
- 10. (Previously presented) The method of Claim 1, wherein compensating for an injectate induced thermal offset of a thermal dilution sensor includes thermally insulating the thermal dilution sensor from the injectate prior to introduction of the injectate into the blood flow in the conduit.

- 11. (Previously presented) A method of determining a blood flow in a conduit, the method comprising:
- (a) passing an injectate through a lumen in a catheter, the passing injectate inducing a measurement offset in a blood parameter sensor, and
- (b) compensating for the measurement offset of the blood parameter sensor by one of (i) pre-calibrating a thermal property of the catheter or the blood parameter sensor; (ii) determining a calibration coefficient for the catheter and (iii) determining a thermal transfer coefficient for the catheter.
- 12. (Previously presented) A method of determining a blood flow in a conduit, the method comprising:
- (a) passing an injectate through a lumen in a catheter, the passing injectate inducing a measurement offset in a blood parameter sensor; and
- (b) compensating for the measurement offset of the blood parameter sensor by pre-calibrating the blood parameter sensor.
 - 13. (Cancelled).
- 14. (Previously presented) A method of determining a blood flow in a conduit, the method comprising:
- (a) passing an injectate through a lumen in a catheter, the passing injectate inducing a measurement offset in a blood parameter sensor; and
- (b) compensating for the measurement offset of the blood parameter sensor by adjusting a measured parameter by a calibration coefficient.
 - 15. (Cancelled).
- 16. (Original) The method of Claim 11, wherein compensating for measurement offset includes thermally isolating the blood parameter sensor from the injectate passing through the lumen in the catheter.
 - 17. (Cancelled).
- 18. (Previously presented) A method of thermodilution measurement of blood flow rate by a catheter, the method comprising:
 - (a) identifying a thermal transfer coefficient for the catheter; and

- (b) adjusting a thermal dilution sensor measurement by an amount corresponding to the thermal transfer coefficient.
- 19. (Original) The method of Claim 18, further comprising relating the thermal transfer coefficient to one of a temperature of the blood flow, a temperature of an injectate, a rate of flow of the injectate and the blood flow rate.
 - 20. (Cancelled).
 - 21. (Cancelled).
 - 22. (Cancelled).
 - 23. (Cancelled).
 - 24. (Cancelled).
 - 25. (Cancelled).
- 26. (Original) The method of Claim 1, further comprising determining a calibration coefficient for the catheter.
- 27. (Original) The method of Claim 26, further comprising adjusting the calibration coefficient in response to a blood flow rate in the conduit or an injection rate of the induced injectate.
- 28. (Original) The method of Claim 26, further comprising increasing the calibration coefficient in response to a reduced blood flow rate.
- 29. (Original) The method of Claim 26, further comprising decreasing the calibration coefficient in response to an increased blood flow.
- 30. (Previously presented) The method of Claim 1, further comprising disposing the catheter in a retrograde orientation in the conduit.
- 31. (Previously presented) The method of Claim 2, further comprising disposing the catheter in a retrograde orientation in the conduit.
- 32. (Previously presented) The method of Claim 11, further comprising disposing the catheter in a retrograde orientation in the conduit.

- 33. (Previously presented) The method of Claim 12, further comprising disposing the catheter in a retrograde orientation in the conduit.
- 34. (Previously presented) The method of Claim 14, further comprising disposing the catheter in a retrograde orientation in the conduit.
- 35. (Previously presented) The method of Claim 18, further comprising disposing the catheter in a retrograde orientation in the conduit.
 - 36. (Cancelled).
 - 37. (Cancelled).
 - 38. (Cancelled).